RAFAEL
ADVANCED DEFENSE SYSTEMS LTD.

SMART AND TO THE POINT.

ROCKS™

Autonomous Extended Stand-Off Range Air-to-Surface Missile

Long-Range, High-Precision Engagement

Maintaining a decisive edge in today's battlespaces requires precise targeting of both surface and underground targets, as well as minimizing risk to the strike aircraft.

ROCKS is a next generation extended stand-off air-to-surface missile. It is designed to strike high-value stationary and relocatable targets above ground, or underground, heavily fortified targets, with pinpoint accuracy in GPS-denied arenas. The missile can be equipped with either a penetration or blast fragmentation warhead.

Benefits

- Pinpoint accuracy
- Day, night, all-weather operation
- Minimal risk to aircraft and missiles
- Simple mission planning
- Combat-proven technologies
- Engages stationary and relocatable targets
- Strikes targets above and below ground

Cutting-Edge, Combat-Proven Technologies

Operating autonomously, and launched at an extended stand-off range well outside the areas of heavily-defended surface-to-air threats, ROCKS incorporates RAFAEL's advanced technologies inherited from the legacy Popeye and SPICE air-to-surface weapons.

The pilot allocates a mission for the missile before its release, including target type, coordinates, impact angle and azimuth, topographic imagery data, and fuse delays.

ROCKS uses its INS/GPS for midcourse navigation trajectory. Homing, up to target impact, is performed by using scene matching or Anti-Radiation technology - enabling high precision hits.

An advanced EO seeker, together with the Anti-Radiation homing, enables day, night and all weather operation. Automatic Target Acquisition, using a unique scene-matching algorithm and Anti-Radiation technology, overcomes any GPS jamming scenario, as well as navigation and Target Location Errors.

The missile's extended stand-off range and variable high-velocity trajectories minimize attrition of both the launching aircraft and the missile, ensuring mission success.

Main Capabilities

- Autonomous operation
- Extended stand-off range
- Selectable horizontal and vertical trajectories
- Anti-Radiation homing for Time Critical Targets
- GPS for targets of opportunity
- Insensitive to communication and GPS jamming
- Overcomes Target Location Error

Technical Specifications

CEP	3 meters
Warhead	Deep Penetration or Blast Fragmentation
Fuse	Preset & Cockpit-Selectable
Navigation	INS/GPS

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